

010602



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Canada

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Fax 613 632-5246

**C10-12**  
**Job Sheet 193857**



Part No: C10-12

Job Qty: 12 pcs

Part Name: Solenoid



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 4/23/19

Job Tracking No:

Due Date: 5/8/19

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG C10-12 Rev 3 IPP Rev A 18.04.10 new issue DP Verify DD

Ship Via:

## Bill of Materials

## Job Routing

| Op No | Operation                   | Qty    | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off                          |
|-------|-----------------------------|--------|------------|----------|-----------|---------|-----------------------|-----------|-----------------------------------|
|       |                             |        |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time |                                   |
| 100   | Small Fab - 1               | 12 pcs | 5/8/19     |          | 0.00      | 0.60    | Small Fab - 1         |           | AP 2019/06/26                     |
|       |                             |        |            |          |           |         | Small Fab - 2         |           |                                   |
|       |                             |        |            |          |           |         | Small Fab - 3         |           |                                   |
|       |                             |        |            |          |           |         | Small Fab - 4         |           |                                   |
|       |                             |        |            |          |           |         | Small Fab - 5         |           |                                   |
|       |                             |        |            |          |           |         | Small Fab - 6         |           |                                   |
|       |                             |        |            |          |           |         | Small Fab - 7         |           |                                   |
| 110   | QC 5                        | 12 pcs | 5/8/19     |          | 0.00      | 0.00    | QC 5 - 10             |           |                                   |
|       |                             |        |            |          |           |         | QC 5 - 12             |           |                                   |
|       |                             |        |            |          |           |         | QC 5 - 17             |           |                                   |
|       |                             |        |            |          |           |         | QC 5 - 18             |           |                                   |
|       |                             |        |            |          |           |         | QC 5 - 19             |           |                                   |
|       |                             |        |            |          |           |         | QC 5 - 22             |           |                                   |
|       |                             |        |            |          |           |         | QC 5 - 24             |           |                                   |
|       |                             |        |            |          |           |         | QC 5 - 3              |           |                                   |
|       |                             |        |            |          |           |         | QC 5 - 43             |           |                                   |
|       |                             |        |            |          |           |         | QC 5 - 49             |           |                                   |
|       |                             |        |            |          |           |         | QC 5 - 51             |           |                                   |
|       |                             |        |            |          |           |         | QC 5 - 58             |           |                                   |
|       |                             |        |            |          |           |         | QC 5 - 68             |           |                                   |
|       |                             |        |            |          |           |         | QC 5 - 9              |           |                                   |
|       |                             |        |            |          |           |         | QC 5 - 50             |           |                                   |
|       |                             |        |            |          |           |         | QC 5 - 30             |           |                                   |
|       |                             |        |            |          |           |         | QC 5 - 40             |           |                                   |
| 130   | Packaging 3-1 - Stock - B4B | 12 pcs | 5/8/19     |          | 0.00      | 0.00    | Packaging 3 - 1 - B4B |           | DAS<br>40<br>9-89<br>JUN 7 6 2019 |
|       |                             |        |            |          |           |         | Packaging 3 - 2 - B4B |           |                                   |
|       |                             |        |            |          |           |         | Packaging 3 - 3 - B4B |           |                                   |
|       |                             |        |            |          |           |         | Packaging 3 - 4 - B4B |           |                                   |
|       |                             |        |            |          |           |         | Packaging 3 - 5 - B4B |           |                                   |
|       |                             |        |            |          |           |         | Packaging 3 - 6 - B4B |           |                                   |
|       |                             |        |            |          |           |         | Packaging 3 - 7 - B4B |           |                                   |



Container No: S193918



Part: C10-12

Job No: 193857

Serial No/Batch: S193918

Revision: 2

Inspector:

Exp Date:

Instructions:

Date: 06/26/19

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|     |            |        |        |           |                        |                |
|-----|------------|--------|--------|-----------|------------------------|----------------|
|     |            |        |        |           | Packaging 3 - 8 - B4B  |                |
|     |            |        |        |           | Packaging 3 - 9 - B4B  |                |
|     |            |        |        |           | Packaging 3 - 10 - B4B |                |
|     |            |        |        |           | Packaging 3 - 11 - B4B |                |
|     |            |        |        |           | Packaging 3 - 12 - B4B |                |
|     |            |        |        |           | Packaging 3 - 13 - B4B |                |
|     |            |        |        |           | Packaging 3 - 14 - B4B |                |
|     |            |        |        |           | Packaging 3 - 15 - B4B |                |
|     |            |        |        |           | Packaging 3 - 16 - B4B |                |
|     |            |        |        |           | Packaging 3 - 17 - B4B |                |
|     |            |        |        |           | Packaging 3 - 18 - B4B |                |
|     |            |        |        |           | Packaging 3 - 19 - B4B |                |
|     |            |        |        |           | Packaging 3 - 20 - B4B |                |
|     |            |        |        |           | Packaging 3 - 21 - B4B |                |
|     |            |        |        |           | Packaging 3 - 22 - B4B |                |
|     |            |        |        |           | Packaging 3 - 23 - B4B |                |
|     |            |        |        |           | Packaging 3 - 24 - B4B |                |
|     |            |        |        |           | Packaging 3 - 25 - B4B |                |
|     |            |        |        |           | Packaging 3 - 26 - B4B |                |
|     |            |        |        |           | Packaging 3 - 27 - B4B |                |
|     |            |        |        |           | Packaging 3 - 28 - B4B |                |
|     |            |        |        |           | Packaging 3 - 29 - B4B |                |
|     |            |        |        |           | Packaging 3 - 30 - B4B |                |
|     |            |        |        |           | Packaging 3 - 31 - B4B |                |
|     |            |        |        |           | Packaging 3 - 32 - B4B |                |
|     |            |        |        |           | Packaging 3 - 33 - B4B |                |
|     |            |        |        |           | Packaging 3 - 34 - B4B |                |
|     |            |        |        |           | Packaging 3 - 35 - B4B |                |
|     |            |        |        |           | Packaging 3 - 36 - B4B |                |
|     |            |        |        |           | Dana M                 |                |
| 140 | QC 21 - FG | 12 pcs | 5/8/19 | 0.00 0.00 | QC 21 - FG - 21        | DAS            |
|     |            |        |        |           | QC 21 - FG - 70        | JUN 28 2019 70 |
|     |            |        |        |           | QC 21 - SA - 53        | 9-89           |

GA 195

Part Op 100 - (Small Fab) 1-Assemble as per DWG sheet 1. \*\*\*Note 32446 22-16 crimp connectors supplied loose as per note  
 Descriptions: 1\*\*\*

- 110 - (QC5- Inspect part completeness to step on W/O)  
 130 - (Identify as per dwg & Stock Location: \_\_\_\_\_)  
 140 - (QC21- Final Inspection - Work Order Release)

## Job BOM

| Part / Item | Component Name     | Quantity      | Operation         | Container           |
|-------------|--------------------|---------------|-------------------|---------------------|
| 32446       | Crimp Terminal     | 24 Ea (2 ea)  | 100-Small Fab - 1 | 5047075             |
| 92383A695   | Slotted Spring Pin | 12 Ea (1 ea)  | 100-Small Fab - 1 | 5040831             |
| C10-12-0    | Solenoid           | 12 pcs (1 ea) | 100-Small Fab - 1 | 105182055 @ 1039885 |
| C45-8-2-4   | Spacer             | 12 pcs (1 ea) | 100-Small Fab - 1 | 51763615            |

123046  
157656

## Job Allocations

| Operation         | Component Part | Required | Inventory | Allocated |
|-------------------|----------------|----------|-----------|-----------|
| 100-Small Fab - 1 | 32446          | 24       | 706       | 0         |
|                   | 92383A695      | 12       | 69        | 0         |
|                   | C10-12-0       | 12       | 10        | 0         |
|                   | C45-8-2-4      | 12       | 21        | 0         |

## Part Specifications

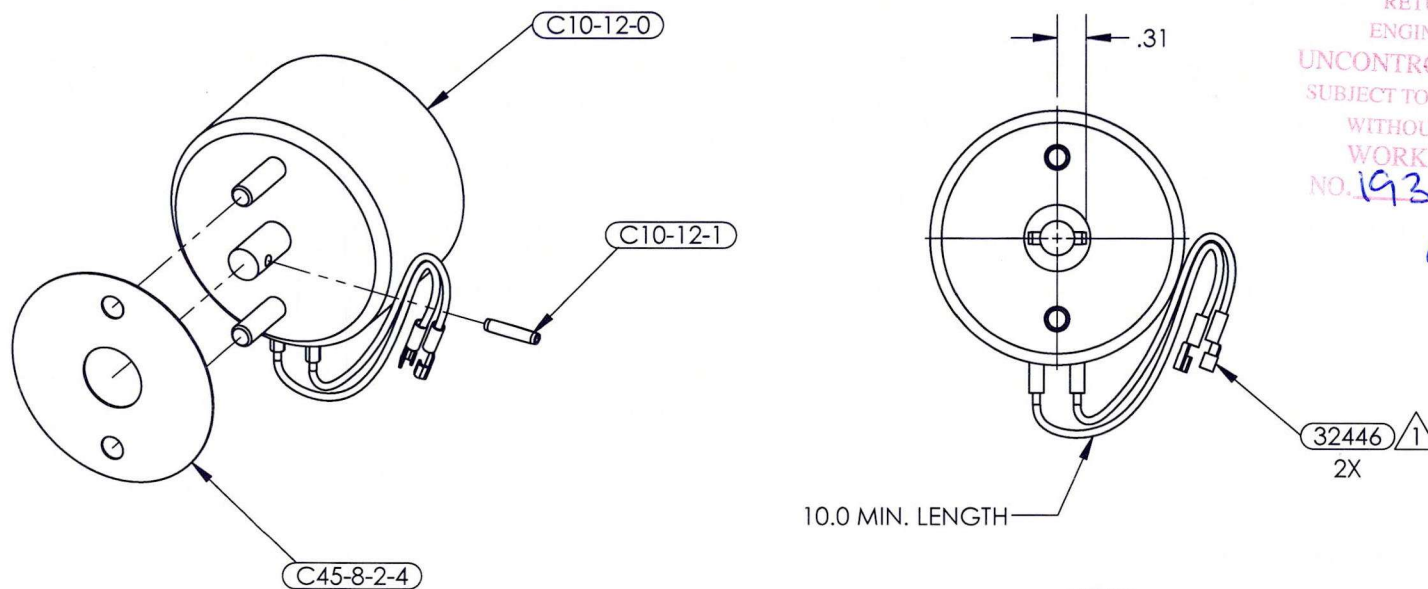
Specifications could not be found.

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| REVISIONS |         |                                                                                                                                                                                                                                         |           |         |          |
|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------|----------|
| REV       | ECR     | DESCRIPTION                                                                                                                                                                                                                             | DATE      | INITIAL | APPROVED |
| 1         |         | AS DRAWN BY CANAM                                                                                                                                                                                                                       | 5/13/2013 | CFS     |          |
| 2         | 14-0090 | CH'D TITLEBLOCK WAS RED BARN IS DART. ADDED 10.0 MIN LENGTH NOTE. ADDED SPACER C45-8-2-4, & CONNECTORS 32446. <b>C10-12-0</b> ADDED ENGRAVE BATCH NUMBER NOTE. <b>C10-12-1</b> CH'D MAT'L WAS STEEL IS S.S., ADDED B/O INFO #92383A695. | 7/25/2014 | JAG     | RW       |



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SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 193857 MWS  
19-04-23

NOTE:

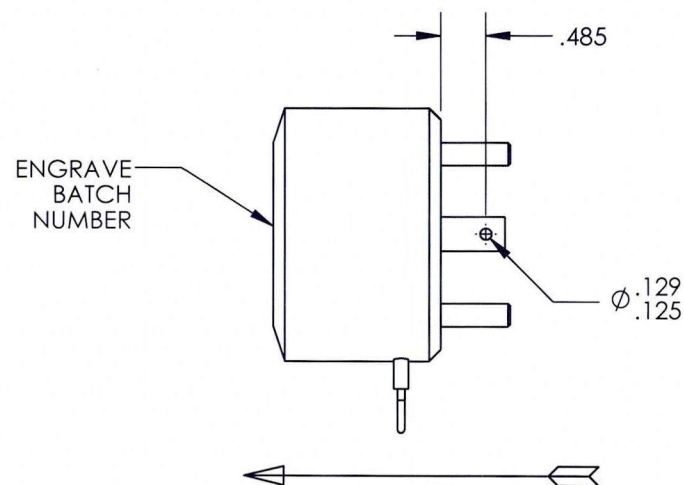
1 CONNECTORS SUPPLIED LOOSE WITH ASSEMBLY.

|                                                                                                                                    |                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>DART<br/>AEROSPACE</b>                                                                                                          |                                                                                                    |
| TITLE<br><b>SOLENOID ASSY</b>                                                                                                      |                                                                                                    |
| DWG NO.<br><b>C10-12</b>                                                                                                           | REV<br><b>2</b>                                                                                    |
| MAT'L<br>UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>.XXX ± .005 FRACTIONS ± 1/8<br>.XX ± .01 ANGLES ± 5°<br>.X ± .1 | DRAWN BY: <b>CANAM</b><br>APPROVED: <b>D Weil</b><br>HEAT TREAT<br>FINISH<br>SPEC<br>USED ON MODEL |
| 1. BREAK ALL SHARP EDGES .015 x 45°<br>OR .015R<br>2. DIMENSIONAL LIMITS APPLY AFTER PLATING                                       |                                                                                                    |
| SCALE 1:2                                                                                                                          | DATE 4/26/2002                                                                                     |
| SHEET 1 OF 2                                                                                                                       |                                                                                                    |

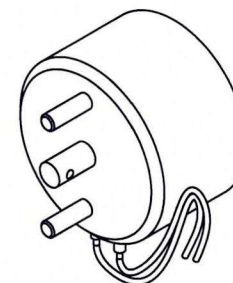
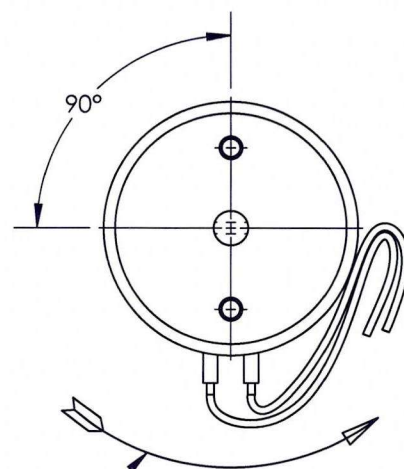
| ASSY QTY | ASSY QTY | B/O | Part #    | UNIT QTY | Description               | Material | B/O INFORMATION OR SPECIFICATIONS   | PG. |
|----------|----------|-----|-----------|----------|---------------------------|----------|-------------------------------------|-----|
|          |          | B/O | C10-12-0  | 1        | SOLENOID                  |          | H-2553-020 (MODIFIED)               | 2   |
|          |          | B/O | C10-12-1  | 1        | SPRING PIN                | S.S.     | Ø1/8 X 5/8 MCMASTER-CARR #92383A695 | 1   |
|          |          |     | C45-8-2-4 | 1        | SPACER                    |          | SEE DWG. C45-8-2                    | 1   |
|          |          | B/O | 32446     | 2        | 22-16 AWG KNIFE CONNECTOR |          | ALLIED ELECTRONICS 32446            | 1   |

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| REVISIONS |         |                                           |           |         |          |
|-----------|---------|-------------------------------------------|-----------|---------|----------|
| REV       | ECR     | DESCRIPTION                               | DATE      | INITIAL | APPROVED |
| 2         | 01-0090 | C10-12-0 ADDED ENGRAVE BATCH NUMBER NOTE. | 7/25/2014 | DPD     | JAG      |



SHAFT SHOULD  
BE RETRACTED  
WHEN DRILLED



C10-12-0

SOLENOID

|                                                                                                        |                                                                                                    |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>DART<br/>AEROSPACE</b>                                                                              |                                                                                                    |
| TITLE<br><b>SOLENOID ASSY</b>                                                                          |                                                                                                    |
| DWG NO.<br><b>C10-12-0</b>                                                                             | REV<br><b>2</b>                                                                                    |
| MAT'L<br>UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>.XXX ± .005<br>.XX ± .01<br>.X ± .1 | DRAWN BY: <b>CANAM</b><br>APPROVED: <i>D Weil</i><br>HEAT TREAT<br>FINISH<br>SPEC<br>USED ON MODEL |
| 1. BREAK ALL SHARP EDGES .015 x 45°<br>OR .015R<br>2. DIMENSIONAL LIMITS APPLY AFTER<br>PLATING        |                                                                                                    |
| SCALE<br><b>1:2</b>                                                                                    | DATE<br><b>12/19/2001</b>                                                                          |
| SHEET 2 OF 2                                                                                           |                                                                                                    |

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                        |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | MRB (QSI042)           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | QC / QA Coordinator    |  |
| <b>Root Cause</b><br><br><div style="display: flex; flex-direction: column;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Presservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                        |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |